



2021

Leave 2020 in your wake and sail forward with BRM to reach exciting new horizons in 2021

By PETER BROAD
CEO & Managing Director

Broadreach Marine Technical Consultants
COMPANY PRESENTATION

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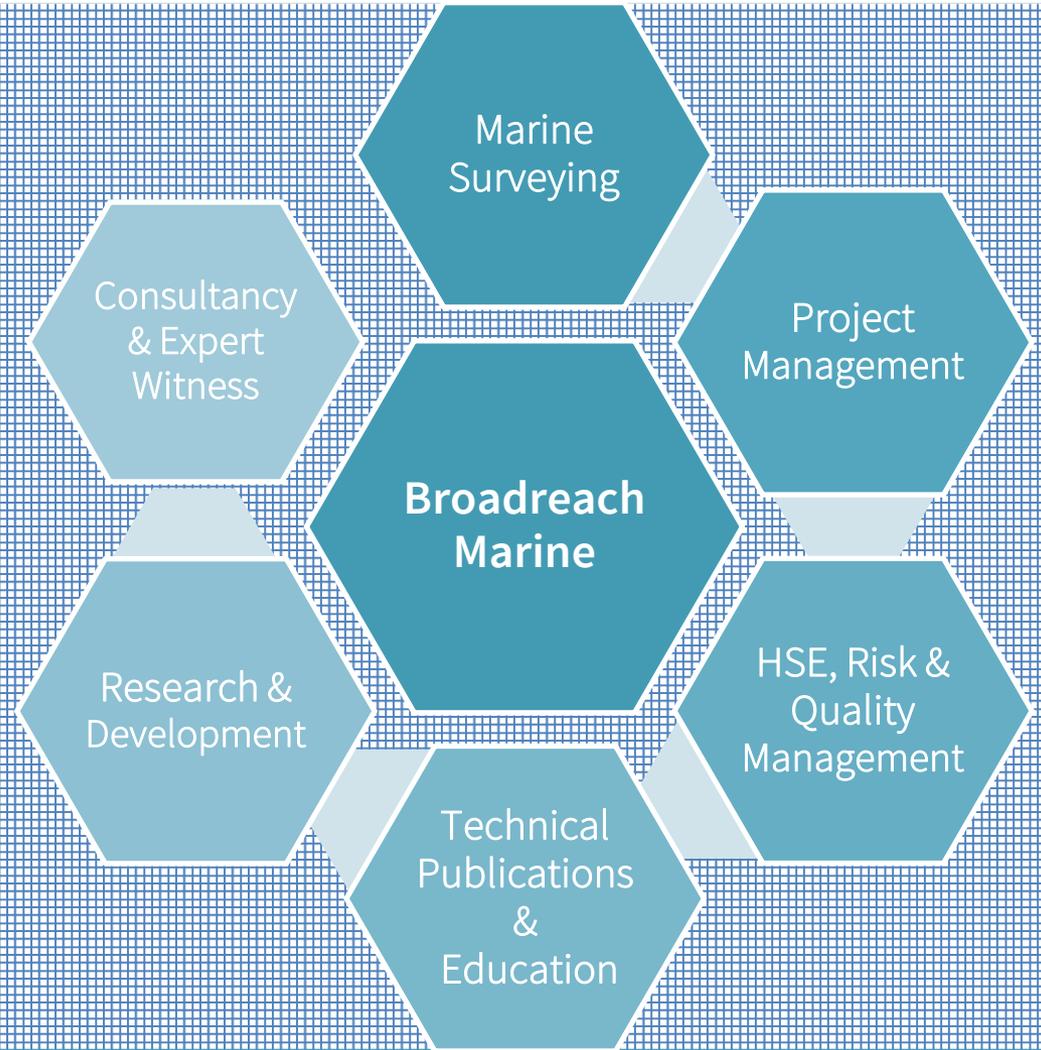
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Rev 17 - Jan 2021

Broadreach
MARINE 

Welcome to Broadreach Marine

- Thirty years + history working in the marine industry
- Set up in the UK in **2010**
- South Korean office opened in September **2017**
- Managing multi-million dollar newbuild projects
- Offering plan approval, office, inspection and HSE services
- Providing training and education



Welcome to Broadreach Marine

- July 2020 update
- We are pleased to announce that we have successfully achieved ISO 9001: 2015 with DNV-GL.
- Scope of Certification: 'The Provision of Training, Plan Approval and Supervisory Services for Ship Building Projects.'



MANAGEMENT SYSTEM CERTIFICATE

Certificate No: 10000375756-MSC-KAB-KOR Initial certification date: 28 July 2020 Valid: 28 July 2020 - 27 July 2023

This is to certify that the management system of

BroadReach Marine Korea Co., Ltd.

Office 401, 110, Songjeong 5-gil, Yeoncho-myeon, Geoje-si, Gyeongsangnam-do, 53211, Korea

has been found to conform to the Quality Management System standard:
ISO 9001:2015, KS Q ISO 9001:2015

This certificate is valid for the following scope:

The Provision of Training, Plan Approval and Supervisory Services for Ship Building Projects.

Place and date:
Seoul, 29 July 2020



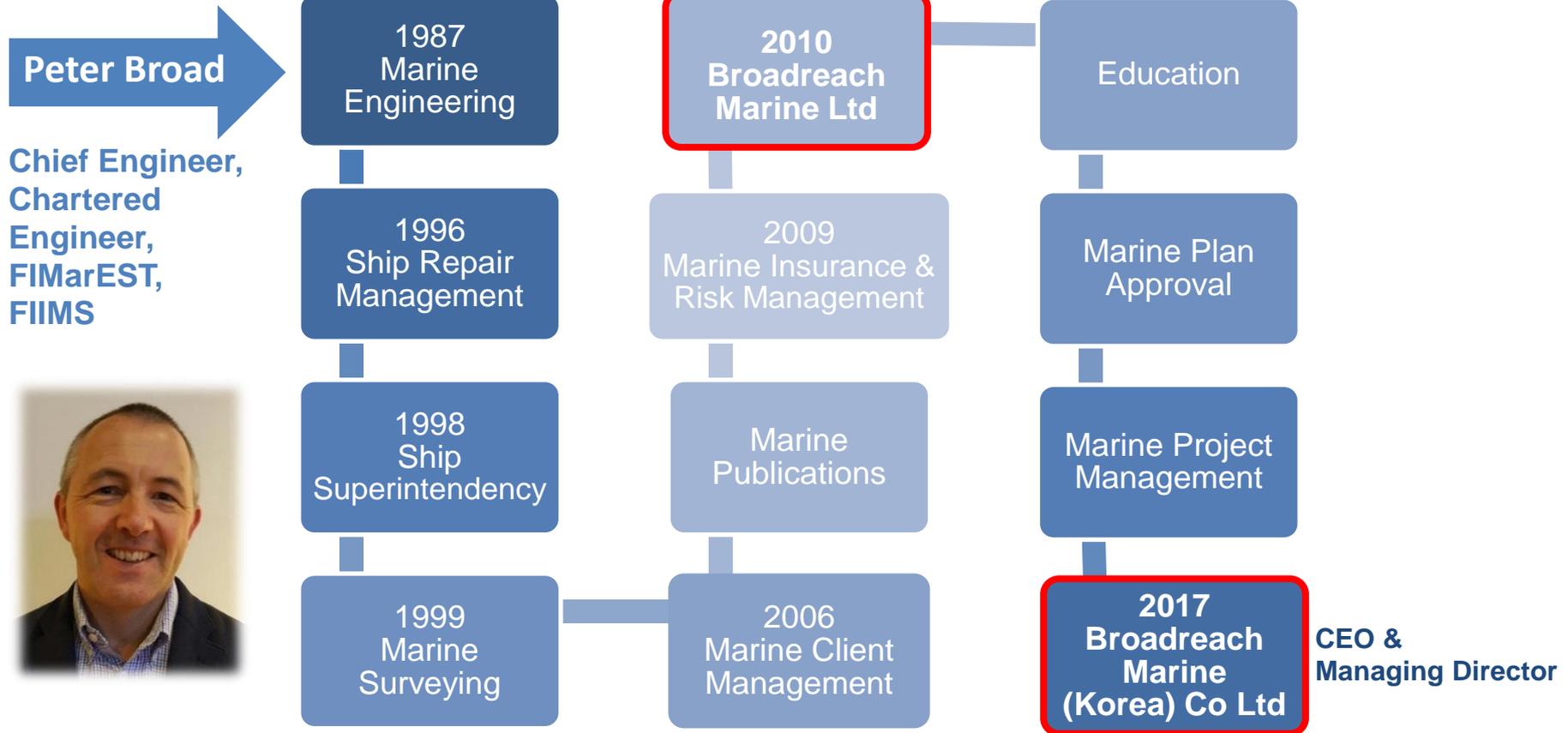
KAB-QC-10
Accredited by Member of the IAF for QMS



For the issuing office:
DNV GL - Business Assurance
18F, Kyobo Bldg., 1, Jong-ro, Jongno-gu,
Seoul, Korea

Jang-Sup Lee
Management Representative

Lack of fulfillment of conditions as set out in the Certification Agreement may render this Certificate invalid.
DNV GL Business Assurance Korea Ltd is accredited by Korea Accreditation Board (KAB) as a Quality Management System certification body (Accreditation number: KAB-QC-10).
ACCREDITED UNIT: DNV GL Business Assurance Korea Ltd, 18F Kyobo Bldg., 1, Jong-ro, Jongno-gu, Seoul, Republic of Korea. TEL: +82 2 724 8413.
dnvgl.kr/assurance



BRM has pedigree

- Staff backgrounds within the major classification societies
- Vast experience working for top international owners and technical managers
- Memberships of key professional bodies
- Extensive collective experience across the UK, Middle East and Far East
- Peter Broad, Managing Director, acts as In-Country Representative for the International Institute of Marine Surveyors and is currently Vice President

We are proud to be associated with these companies:



BRM's USPs for your Far East projects

- Easy communication
 - English is our first language (mostly)
- Responses at short notice
 - We live locally
- No Visa delays
 - We all have local residency so enjoy freedom of travel in Korea, Japan and China
- High-quality cost-effective service
 - Competitive rates for survey attendance, reduced travel costs, real time communication within Asia, compared to equivalent qualified person resident outside the area
- We are engaged locally
 - BRM is a Corporate Member of the IIMS and Peter acts as its In-Country Representative for Korea



BRM's Marine Warranty & Insurance Surveys

ENI CORAL FLNG at Samsung 2019 – 21 MWS

- Special Cargos
- Towage Suitability Surveys
- Lifting and lashing plans
- Hull and Machinery
- Damage Surveys and Supervision
- Superintendency on behalf of Owners



**Damage surveys,
emergency repairs**



Extensive experience with international clients and shipyards

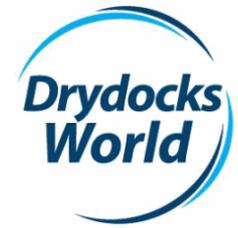
Pre-contract support

- Specification reviews
- Vendor selection and auditing
- Subcontractor auditing
- Assistance with shipbuilding contract terms & conditions
- HSE and Quality Risk Management

Project management

- Newbuilds & Shiprepair
- Plan Approval
- Site Team selection and management
- Superintendency

We are proud to have worked with the following shipping companies & shipyards:



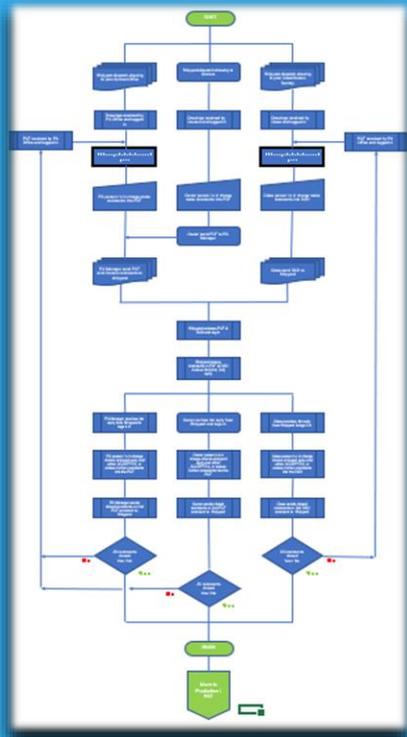
SAMSUNG HEAVY INDUSTRIES



Project Management

Providing turnkey solutions to owners in Marine Project Management:

All work carried out to ISO 9001 standards.



- Plan Approval
- Document Control
- Site Office Management
- Inspection Test Plans
- Site Office comments punch lists
- Class Certification reviews
- Class Survey Master Lists review in association with Owners Planned Maintenance schedules and processes
- Delivery protocols

DELIVERY CLOSING

FOR H.2468 ON JAN. 5 2018

DSME SHIPBUILDING & MARINE ENGINEERING CO., LTD.



LNGC Construction expertise

Involvement to date in over 35 new construction projects for LNG vessels in Japan, Korea and China.

Awilko
Bonny Gas
BP
BW
Celsius
Chandris
DynaGas
K-Line
Maran Gas
MISC
NLNG
Qatar Gas
Ras Gas
Shell
Teekay
Woodside



- MOSS
- NO96

- Mk III
- MK III Plus

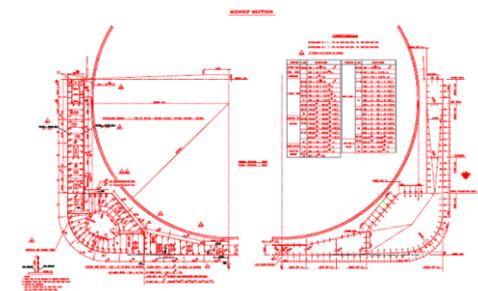
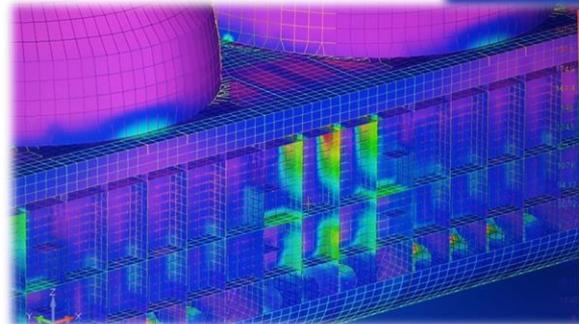
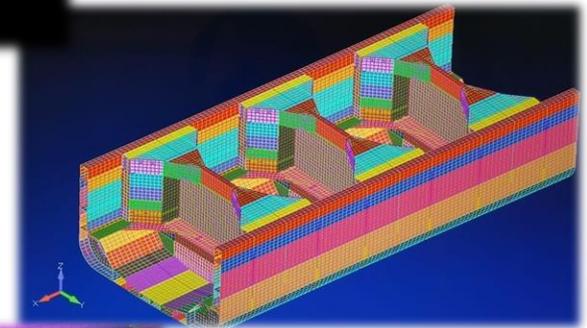
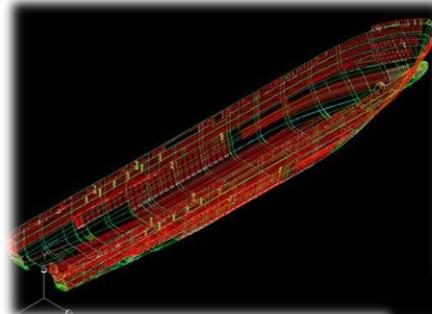
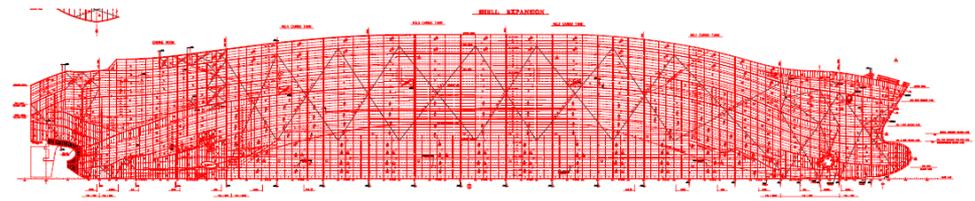


- Steam
- DFDE

- MEGI
- XDF

Critical Design Reviews

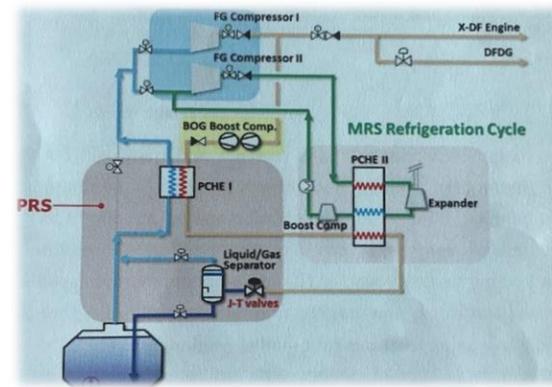
- FMEA
- Stress and Fatigue Analysis
- Reverse Engineering
- Conceptual design reviews
- Pre-production 3-D modelling
- Retro-fit systems and piping design
- Nesting plans
- Obsolescence studies
- Life extension surveys and repair mitigation



Leading edge involvement

- Gas containment
- Partial re-liquefaction and methane re-liquefaction
- LNG bunkering containment

- Full re-liquefaction
- PRS
- MRS



Following recent developments in LNG Bunkering and Tank Design

- Lattice
- Solidus
- Brick



www.lattice-technology.com
sales@lattice-technology.com

HSE, Risk and Quality Management

Extensive experience supporting our service offering.

HSE Auditing

- Sub-contractors and vendors
- Management systems verification and control in shipyards

Risk assessments and mitigation

Memberships held by staff:

- IOSH
- IIRSM
- NACE
- NEBOSH
- KSSS (building robust shipyard standards in Korea)

HSE Performance Recognition certificate from K Line/DSME

Our Staff are qualified and active members of the following professional bodies:



Korean Shipbuilding Safety Standards (KSSS) is the latest initiative for standardisation of HSE in all Korean yards

Technical Publications and Education

Approved Training Provider for

- IMarEST
- NI
- IIMS

Papers delivered internationally

- Canadian Government
- Marine Insurance companies
- Risk Management companies

Global recognition

- Published in the open market
- Presentations at international Marine Conferences

Training modules approved by the IIMS for students

- HND
- BSc
- Masters



Government
of Canada



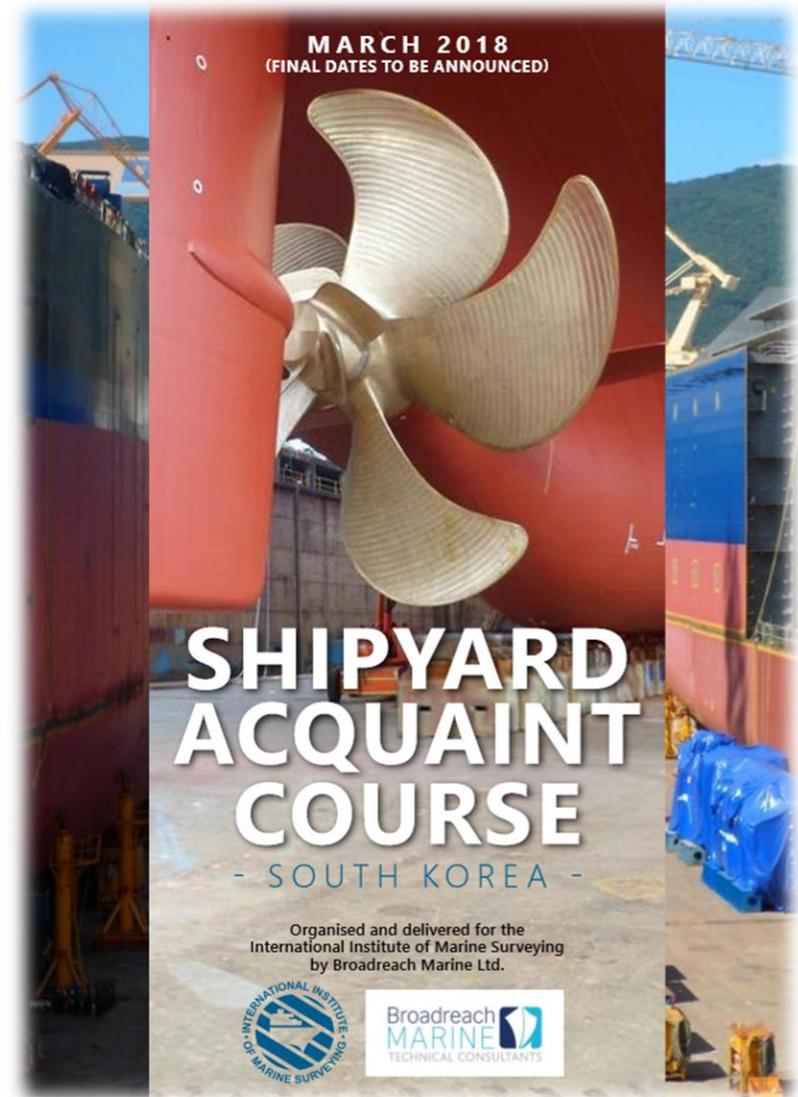
Shipyard Acquaint Training Course

Running in 2021

A unique course providing expert online tuition, for all the processes involved in modern shipbuilding, in association with IIMS.

Accredited by

- The Institute of Marine Engineers, Science and Technology
- The Nautical Institute
- The International Institute of Marine Surveying for CPD Points



Research & Development

Direct involvement with cutting edge LNG technology

- Containment conceptual designs
- Propulsion System development
- LNG as a fuel process management and integration

University cooperation

- Associated with the Faculty of Marine Science at Southampton University and the Hydro Team annual challenge

Supporting Working Group

- Korean Advanced Institute of Science and Technology



KONGSBERG



KAIST

Consultancy

- Provision of Technical Consultancy advice and solutions to Owners and Technical Managers
- Management of multi million-dollar newbuild projects to the highest quality and safety standards
- Expert Witness

- Pre-Contract Specification reviews
- Pre-Contract Vendor selection advice
- Plan Approval
- Shipyard HSE and Quality Auditing
- HSE and Quality Risk Management
- HSE Gap Analysis
- Vendor auditing
- Sub-contractor auditing
- Site Team set up and recruitment
- Site Team Management
- Production process Quality System development and Inspection Test Plans
- Attendance at Sea and Gas Trials on behalf of Owners or Charterers

Broadreach Marine

An international company with offices in the UK and South Korea., trading as

Broadreach Marine Ltd

and

Broadreach Marine (Korea) Co Ltd

Operating as one global company sharing resources and technical expertise.



Broadreach Marine

E-mail:

info@broadreachmarine.com

Website:

www.broadreachmarine.com



2020 - 10 years of success



Don't look Back



Look FORWARD with BRM

Corporate Member and In-Country
Representative for South Korea

Broadreach
MARINE 